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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/761,641	01/18/2001	Shunpei Yamazaki	740756-002249	6097	
22204	7590 02/06/2004		EXAM	EXAMINER	
NIXON PEABODY, LLP			BOOTH, RICHARD A		
401 9TH STREET, NW SUITE 900			ART UNIT	PAPER NUMBER	
WASINGTO	ON, DC 20004-2128		2812		
			DATE MAILED: 02/06/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	- A				
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Advisory Action		09/761,641	YAMAZAKI ET AL.					
	· •	Examiner	Art Unit					
۰,۰		Richard A. Booth	2812					
There inal re condit	The MAILING DATE of this communication appears REPLY FILED 03 December 2003 FAILS TO PLAGE fore, further action by the applicant is required to a ejection under 37 CFR 1.113 may only be either: (* ion for allowance; (2) a timely filed Notice of Appe ination (RCE) in compliance with 37 CFR 1.114.  PERIOD FOR RE  The period for reply expires	CE THIS APPLICATION avoid abandonment of th 1) a timely filed amendment (with appeal fee); or (3) EPLY [check either a) or	IN CONDITION FOR ALLO' is application. A proper reply tent which places the application (a) a timely filed Request for (a)	WANCE. y to a tion in				
b) Extracted by the base of th		visory Action, or (2) the date set nan SIX MONTHS from the mail FILED WITHIN TWO MONTH ate on which the petition under 3 asion and the corresponding amount of the cor	ing date of the final rejection. S OF THE FINAL REJECTION. Set 7 CFR 1.136(a) and the appropriate ecunt of the fee. The appropriate exter ally set in the final Office action; or (2)	extension fee extension fee nsion fee under ) as set forth in				
1.🛛	A Notice of Appeal was filed on <u>03 December 2003</u> 37 CFR 1.192(a), or any extension thereof (37 CF	<ol> <li>Appellant's Brief must</li> <li>R 1.191(d)), to avoid dis</li> </ol>	be filed within the period set missal of the appeal.	forth in				
2.	The proposed amendment(s) will not be entered by	pecause:						
(a	(a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);							
(b	(b) they raise the issue of new matter (see Note below);							
(c)	(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or							
(d	they present additional claims without cance NOTE:	eling a corresponding nur	nber of finally rejected claim	s.				
3.	Applicant's reply has overcome the following reject	ction(s):						
4.	Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).							
5.⊠	☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.							
6.	The affidavit or exhibit will NOT be considered be raised by the Examiner in the final rejection.	ecause it is not directed S	SOLELY to issues which were	e newly				
7.	For purposes of Appeal, the proposed amendmen explanation of how the new or amended claims w	nt(s) a)□ will not be ente would be rejected is provi	ered or b)⊡ will be entered a ided below or appended.	nd an				
	The status of the claim(s) is (or will be) as follows	:						
	Claim(s) allowed:							
	Claim(s) objected to:							
	Claim(s) rejected:							
	Claim(s) withdrawn from consideration:							
8.	The drawing correction filed on is a) app	proved or b) disappro	oved by the Examiner.					
9.	Note the attached Information Disclosure Stateme			,				
	Other:		Righard A. Booth Primary Examiner Art Unit: 2812					

U.S. Patent and Trademark Office PTOL-303 (Rev. 11-03)

Continuation of 5. does NOT place the application in condition for allowance because: In response to applicant's argument that the prior art does not recognize the connection between ion doping an impurity and the oxygen, nitrogen, and carbon concentrations, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See Ex parte Obiaya, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivation to have an oxygen, nitrogen, and carbon concentration less than 5 x 1018 atoms/cm3 establishes a prima facie case of obviousness with respect to a carbon, oxygen, or nitrogen concentration of less than 3 ( or 1) x 1017 atoms/cm3 since overlapping ranges provide a prima facie case of obviousness (see MPEP 2144.05). A case of unexpected results has not been provided with respect to the smaller concentration range. Similarly, secondary evidence has not been provided to show the criticality of the diborane diluted with hydrogen.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See in re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

2